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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/665,006	09/22/2003	Tetsuya Shiozaki	Q77349	5832
23373 7590 07/19/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			NWAONICHA, CHUKWUMA O	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			1621	
		,		
			MAIL DATE	DELIVERY MODE
			07/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Asticus Occurrence	10/665,006	SHIOZAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Chukwuma O. Nwaonicha	1621				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I.  lely filed  the mailing date of this communication.  D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 03 Ma	av 2007	•				
	action is non-final.					
·—	, <del> _</del>					
closed in accordance with the practice under E						
Disposition of Claims	•					
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.	•					
6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) acce		Examiner.				
Applicant may not request that any objection to the c						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	have been received.					
2. Certified copies of the priority documents	have been received in Applicati	on No				
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
•		•				
		. •				
Attachment(s)	<b>∧</b> □	(DTO 440)				
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P	atent Application				
Paper No(s)/Mail Date	6) Other:					

Application/Control Number: 10/665,006

Art Unit: 1621

## **DETAILED ACTION**

## Current Status

- 1. This action is responsive to Applicants' amendment of 3 May 2007.
- 2. Receipt and entry of Applicants' amendment is acknowledged.
- 3. Claims 1-5 are pending.
- 4. The rejection of claims 1-5 under 35 U.S.C. 103 as being unpatentable over US 5,925,794 in view of Hsu et al. for the reasons set forth in the previous Office Action of 11/6/06 is maintained.

Applicants' argument and amendments filed 3 May 2007 have been fully considered but they are not persuasive because the prior art cited teaches applicants' claimed method for producing a 3-methylthiopropanal in a continuous manner. Hsu et al. teach method for producing a 3-methylthiopropanal in a continuous process by dividing the reaction product into a product fraction and a circulating fraction, and the circulating fraction is recycled to the gas/liquid contact zone. The prior art technique signifies a continuous process. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the reaction steps taught by Hsu et al. in applicants' claimed process, in order to produce 3-methylthiopropanal. Also, should be noted that the variation of the reagents' concentration as claimed by applicants is not a patentable distinction.

Additionally, merely modifying the process conditions such as temperature and concentration is not a patentable modification absent a showing of criticality. *In re Aller*, 220 F. 2d 454, 105 U. S. P. Q. 233 (C. C. P. A. 1955).

Application/Control Number: 10/665,006

Art Unit: 1621

THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chukwuma O. Nwaonicha whose telephone number is 571-272-2908. The examiner can normally be reached on Monday thru Friday, 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne (Bonnie) Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 1621

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chukwuma O. Nwaonicha, Ph.D. Patent Examiner Art Unit: 1621

J. PARSA PRIMARY EXAMINER

Yvonne (Bonnie) Eyler Supervisory Patent Examiner, Technology Center 1600